

CLAIMS

What is claimed is:

1. A handheld assembly tool system for assembling fluid transfer lines that include a fitting and a tube, comprising:
 - a fitting fixture for holding the fitting, the fitting fixture including a flange for supporting the fitting and a selectively adjustable retaining member configured to secure the fitting to the fitting fixture;
 - a tube fixture configured to hold the tube; and
 - a press device selectively operable to engage and move the fitting fixture such that a portion of the fitting is forced into the tube.
2. The system of Claim 1, further including a first fastener for adjusting the position of the retaining member relative to the flange.
3. The system of Claim 1, wherein the fitting fixture includes a receptacle for securing the fitting fixture to the press device.
4. The system of Claim 3, wherein the receptacle is configured to receive a second fastener to secure the fitting fixture to the press device.
5. The system of Claim 1, wherein the press device includes a mechanically actuated ram, the fitting fixture secured to the ram for movement therewith.
6. A fitting fixture for use with a handheld assembly tool to assemble fluid transfer lines that include a fitting and a tube, comprising:
 - a flange for supporting the fitting;
 - a selectively adjustable retaining member for securing the fitting against the flange; and
 - a receptacle for securing the fitting fixture to the assembly tool.
7. The fitting fixture of Claim 6, further including a guide member for guiding movement of the fitting fixture relative to the assembly tool.

8. A handheld assembly tool system for assembling fluid transfer lines that include a fitting and a tube, comprising:

a press device including a moveable ram and a support cage;

a fitting fixture for holding the fitting, the fitting fixture including a flange for supporting the fitting, a selectively adjustable retaining block for securing the fitting against the flange and a receptacle for securing the fitting fixture to the movable ram;

a tube fixture configured to hold the fluid conduit; and

whereby the ram selectively operable to move the fitting fixture within the support cage such that a portion of the fitting is forced into the tube.

9. The system of Claim 8, further including a first fastener for adjusting the position of the retaining block relative to the flange.

10. The system of Claim 8, wherein the receptacle is configured to receive a second fastener to secure the fitting fixture to the press device.

11. The system of Claim 8, where the fitting fixture further includes a guide member for guiding movement of the fitting fixture within the support cage.

12. The system of Claim 8, wherein the movable ram is positioned to provide a reactive force along substantially parallel longitudinal axes of the fitting and the tube.

13. The system of Claim 8, wherein the movable ram is configured to engage the fitting.